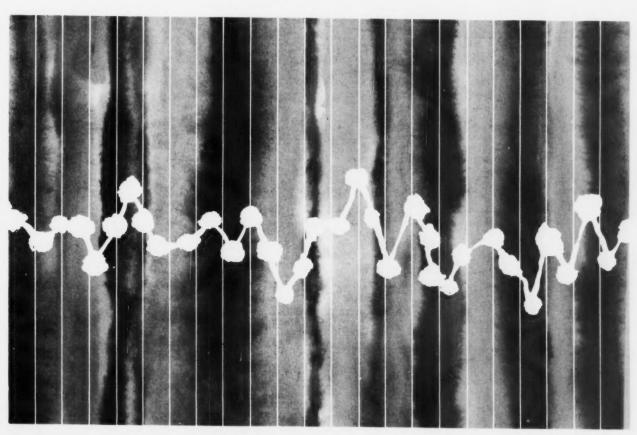
defense indicators

DECEMBER 1976





U.S. DEPARTMENT OF COMMERCE . BUREAU OF ECONOMIC ANALYSIS



This report was prepared in the Statistical Indicators Division, Bureau of Economic Analysis. Technical staff and their responsibilities for the publication are—

Barry A. Beckman-Technical supervision and review,

Morton Somer-Selection of seasonal adjustment methods.

Betty F. Tunstall-Collection and compilation of basic data.

The cooperation of various government agencies which provide data is gratefully acknowledged.

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The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1977.

U. S. DEPARTMENT OF COMMERCE Elliot L. Richardson, Secretary

John W. Kendrick, Chief Economist for the Department of Commerce

BUREAU OF ECONOMIC ANALYSIS

George Jaszi, Director

Beatrice N. Vaccara, Associate Director for National Analysis and Projections

Feliks Tamm, Editor

This publication is prepared under the general guidance of an interagency committee established by the Office of Management and Budget. This committee consists of the following persons:

David T. Hulett, Chairman Office of Management and Budget

James D. August, Board of Governors of the Federal Reserve System

Murray F. Foss, Council of Economic Advisers, Executive Office of the President

Rose Glubin, Office of Assistant Secretary of Defense (Comptroller), Department of Defense

Dale W. Gordon, Bureau of the Census, Department of Commerce

Ronald Kutscher, Bureau of Labor Statistics, Department of Labor

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detense indicators

December 1976 Series ES4 No. 76-12

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6 BEA PROJECTS

for economic analysis

BUSINESS CONDITIONS DIGEST A monthly report for analyzing economic fluctuations over a short span of years.

This report brings together approximately 600 economic time series in a form convenient for analysts whether their approach to the study of current business conditions and prospects is the national income model, the leading indicators, anticipations and intentions, or a combination of these. Other types of data such as foreign trade, Federal Government activities, and international series are included to facilitate a more complete analysis.

Data are presented in charts and tables. Appendixes provide historical data, series descriptions, seasonal adjustment factors, and measures of variability. A computer tape containing data for most of the series is available for purchase.

DEFENSE INDICATORS A monthly report for analyzing the current and prospective impact of defense activity on the national economy.

This report brings together the principal time series on defense activities which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. The approximately 60 time series included are grouped in accordance with the time at which the activities they measure occur in the defense order-production-delivery process. Charts and analytical tables facilitate interpretation.

LONG TERM ECONOMIC GROWTH A report for the study of economic trends over a long span of years, 1860–1970.

This report has been developed from available statistics to provide a comprehensive, long-range view of the U.S. economy. It is a basic research document for economists, historians, investors, teachers, and students. It brings together under one cover, in meaningful and convenient form, the complete statistical basis for a study of long-term economic trends. A computer tape file of the time series included in the report is available for purchase.

COMPUTER PROGRAMS FOR TIME SERIES ANALYSIS The source statements for FORTRAN IV programs used by B E A in its analysis of time series are available on a single computer tape.

SEASONAL ADJUSTMENT PROGRAMS.—Two variants of the Census computer program for measuring and analyzing seasonal, trading-day, cyclical, and irregular fluctuations. They are particularly useful in analyzing economic fluctuations which take place within a year. The X–11 variant is used for adjusting monthly data and the X–11Q for quarterly data. These programs make additive as well as multiplicative adjustments and compute many summary and analytical measures.

DIFFUSION INDEX PROGRAM.—A computer program for computing diffusion indexes, cumulated diffusion indexes, and summary measures of the properties of each index.

SURVEY OF CURRENT BUSINESS A monthly report for analyzing current economic developments.

This report provides a useful combination of current data for more than 2,500 statistical series and significant articles analyzing economic developments. These data and analyses include such areas as the national income and product accounts, the balance of payments accounts, plant and equipment expenditures, regional personal income, and the input-output accounts.

BUSINESS STATISTICS A biennial reference volume containing statistical series reported currently in the *Survey of Current Business*.

This report provides historical data back to 1947 for nearly 2,500 time series. The series are accompanied by concise descriptions as to their composition, methods of compilation, comparability, revisions, and availability. Also listed are the names and addresses of organizations which provide the basic data for the series.

Introduction

The purpose of this monthly report is to bring together the principal time series on defense activity which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. Most are monthly but a few quarterly series are included. The series numbers used are for identification purposes only and do not reflect relationships or order.

Classification of Series

Chart 1 compares Government purchases of goods and services for national defense with total gross national product. GNP is the market value of the final output of goods and services produced by the Nation's economy and represents a very broad measure of aggregate economic activity. In addition to national defense purchases, it includes Federal Government purchases of goods and services for nondefense purposes, State and local government purchases, personal consumption expenditures, gross private domestic investment, and net exports of goods and services. Chart 1 also presents national defense purchases as a percent of gross national product and, for both series, changes from the previous quarter.

A related group of series is shown in Chart 4, "Defense Related Balance of Payments Components." These series show the effects of defense-related economic activity on the balance of payments accounts.

The remaining series are grouped in accordance with the time at which the activities they measure occur within the defense order-production-delivery process. Those series measuring activities that usually precede production, such as new orders placed with defense products industries and contract awards, are presented in Chart 2, "Advance Indicators of Defense Activity." Chart 3, "Intermediate and Final Indicators of Defense Activity," presents series that measure activities which tend to move at the same time as production (such as employment) and activities which usually follow production (such as shipments).

Series Included

Following is a list of the series as they appear in charts 1, 2, 3, and 4 (the source agencies are abbreviated in parentheses; detailed lists of sources for charts 1, 2, and 3 appeared as appendixes to the August and October 1968 issues of this report).

Gross National Product and National Defense Purchases

Gross national product (BEA)

Federal Government purchases of goods and services, national defense (BEA)

National defense purchases as a percent of gross national product (REA)

Gross national product, changes from previous quarter (BEA) National defense purchases, changes from previous quarter (BEA)

Advance Indicators of Defense Activity

Defense Department gross obligations incurred, total (DOD)

Defense Department gross obligations incurred, procurement (DOD)

Gross obligations incurred outside the Government for national defense (Treasury)

Defense Department military prime contract awards for work performed in the United States (DOD)

Defense Department gross unpaid obligations outstanding (DOD)

Manufacturers' new orders (Census):

Defense products industries

Defense products

Manufacturers' new orders from the U.S. Government, aerospace industries (Census):

Average weekly overtime hours, production workers, defense products industries (BLS)

Accession rate, defense products industries (BLS) Layoff rate, defense products industries (BLS)

Intermediate and Final Indicators of Defense Activity

Output of defense and space equipment (FRB)

Manufacturers' inventories (Census):

Defense products industries Defense products

Manufacturers' unfilled orders (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders from the U.S. Government, aerospace industries (Census)

Defense Department progress payments outstanding (DOD) Employment in defense products industries, total (BLS) Employment in defense products industries, production

workers (BLS)
Index of aggregate weekly hours, defense products industries

(BLS)
Index of aggregate weekly payrolls, production workers, defense products industries (BLS)

Defense Department personnel, military, active duty (DOD)
Defense Department personnel, civilian, direct hire employment (DOD)

Defense Department net outlays, total, military functions and military assistance (DOD)

Defense Department net outlays, procurement (DOD)

Budget outlays for the national defense function (Treasury) Defense Department personnel compensation (DOD)

Manufacturers' shipments (Census):

Defense products industries

Defense products

Manufacturers' shipments to the U.S. Government, aerospace industries (Census)

Ratio, manufacturers' unfilled orders to shipments (Census): Defense products industries

Defense products

Ratio, manufacturers' inventories to shipments (Census):
Defense products industries
Defense products

Defense-Related Balance of Payments Components

Transfers under U.S. military agency sales contracts—exports (BEA)

Direct defense expenditures-imports (BEA)

U.S. Government cash receipts associated with military sales contracts (BEA)

Some additional data are included in the tables though not presented in the charts. These include Defense Department military prime contract awards by procurement category (e.g., for aircraft, missiles and space systems, ships, weapons, and ammunitions), the operations component of Defense Department

gross obligations incurred, gross unpaid obligations outstanding, and net outlays and the procurement component of gross unpaid obligations outstanding.

Description of Basic Data

The Department of Defense compiles statistics on obligations, contract awards, personnel compensation, and outlays. The DOD obligations and outlays data are based on the Defense Department's monthly Status of Funds report which is developed from accounting data and is designed to provide information on the total status of Defense Department financing. Accounts included in this report are aggregated by appropriation categories including personnel costs, operations and maintenance, procurement, research and development, and construction. The Status of Funds report duplicates some obligations. That is, obligations of one government unit to another unit are not netted out.

The Defense Department's Contract Awards report covers the awarding of procurement contracts. These include obligations for operating and maintenance supplies, equipment and services, research and development, and construction in addition to the obligations for items that constitute the fiscal "procurement" category. The statistics are aggregated by commodity categories including aircraft, missile and space systems, ships, weapons, ammunition, electronics and communication equipment, fuels, and textiles and clothing. The Contract Awards report includes procurement for NASA, other nondefense agencies, and the Foreign Military Sales Program which are not included in the Status of Funds report.

The Census quarterly new orders, unfilled orders and shipments series for "aerospace industries" are based on reports of companies classified into the following industry categories:

Industry	SIC Code
Aircraft and parts	372
Guided missiles and space vehicles, completely assembled	1925

The Census and BLS data for "defense products industries" presented in this report cover companies and establishments¹ classified into the following industry categories in accordance with the Standard Industrial Classification Manual, 1967 edition, Executive Office of the President, Bureau of the Budget:

Industry	SIC Code
Ordnance and accessories	19
Communication equipment	366
Aircraft and parts	372

Establishments reporting to the BLS are classified into industries on the basis of their principal product or activity as determined from information on annual sales volume, which is collected each year on a supplement to the monthly report. The entire employment of an establishment making more than one product or engaging in more than one activity is included under the industry accounting for the largest percentage of the annual sales of that establishment.

The Census Bureau's monthly survey is based primarily on reports at the company level and the monthly estimates are benchmarked to the establishment data from the *Annual Survey*

of Manufactures. Also, many of the large diversified companies file separate divisional reports monthly. Although the reports in the survey are also classified according to their principal product or activity, this difference in the organizational level from which reports are received results in firms being classified into different industries in the BLS and Census surveys and, consequently, limits somewhat the comparability of the data collected by these agencies. However, as we know from past studies in this area, some differences in industrial classification between BLS and Census data would remain even if reports came from the same organizational levels.

Both the Census and the BLS data include a significant amount of nondefense activities carried on by companies and establishments classified in the above industries. For example, the data cover the production of commercial as well as military aircraft. On the other hand, they exclude significant amounts of defense work carried on by companies and establishments classified in industries other than those listed above (e.g., the manufacture of military uniforms and the shipbuilding industry).

Census data for "defense products" are based on separate reports on defense work filed by large defense contractors in the ordnance, communications, complete aircraft, aircraft parts, and shipbuilding industries. Thus, they differ from the "defense products industries" data in that they include defense activity in the shipbuilding industry and exclude nondefense work in the other industries covered. Defense products data cover work for the Department of Defense and exclude contracts for the National Aeronautics and Space Administration and the Atomic Energy Commission.

The DOD data are not strictly comparable in coverage with either the BLS or the Census data since the Defense Department figures (1) cover products of industries not included in the defense products category; (2) generally do not include non-defense activities (except that some series, such as contract awards, include activities by the Department of Defense on behalf of nondefense agencies); and (3) do not cover intermediate activities such as those related to subcontracting and supplying of parts. Thus, the Census Bureau data for manufacturers' new orders and shipments of defense products industries, for example, differ in coverage from the DOD contract awards and net outlays series.

The Department of Defense data are not comparable with Federal Government purchases of goods and services for national defense or the Treasury Department obligations and outlays data since the BEA and Treasury data cover defense-related activities of other agencies such as the Atomic Energy Commission, the Selective Service System, and the Office of Emergency Planning.

Projects to improve the comparability of the data collected by the Bureau of the Census, the Bureau of Labor Statistics, and the Department of Defense and to improve the separation of defense and nondefense activity for the Census and BLS data are being undertaken by the statistical agencies under the leadership of the Interagency Committee mentioned earlier in this report.

¹ An establishment is a single physical location where business is conducted (e.g., a plant). A company often includes more than one establishment.

²See the Bureau of the Census publication *Shipments of Defense-Oriented Industries*, Current Industrial Reports, Series MA-175, for annual estimates of shipments by industry to the Department of Defense, the National Aeronautics and Space Administration, and the Atomic Energy Commission. Included also are industries not covered by the "defense products industries" category.

Variability of Data

Seasonal variations dominate the movements of many time series, and adjustments for average seasonal fluctuations are often necessary to bring out the underlying trends of the series. These seasonal adjustments allow for the effects of repetitive intrayear variations resulting primarily from normal differences in weather conditions and from various institutional arrangements. An additional adjustment is sometimes necessary for series which contain considerable variation resulting from the number of working or trading days in each month. As used in this report, the term "seasonal adjustment" includes trading-day adjustments where they have been made.

Most of the series in this report are shown in seasonally adjusted form. For Defense Department and BLS series, unadjusted data are also shown since they are not readily available elsewhere. Current seasonal adjustment factors are shown in appendix A.

The effect of seasonal adjustment in reducing the month-to-month variation in the data can be seen in appendix B. There, the first two columns show the average month-to-month percent change (without regard to sign) in the data before and after seasonal adjustment. Some series still show very irregular month-to-month movements after adjustment for seasonal variation. The measures in appendix B also indicate the month-to-month variation in the irregular and short-term trend components of the series. For many series, irregular movements tend to dominate 1- or 2-month comparisons, and the underlying short-term trend becomes dominant in comparisons over longer spans. The "months for cyclical dominance" (MCD) measure estimates the span of months required for the short-term trend to dominate the irregular component. Series with an MCD of 4 or more are supplemented with a moving average (with the

number of terms equal to MCD) in the charts. Data for these moving averages are listed in the basic data tables.

Guide to Charts and Tables

Most series are plotted on a standard ratio scale so that equal percent changes cover the same vertical distance. For these series, an increase of 100 percent covers approximately 1 inch. Arithmetic scales are used for series with zero or negative data, series which could approach zero (e.g., average overtime hours and layoff rate), and series expressed in percent.

In general, monthly data are plotted with a solid line and quarterly data are represented by a solid line with quarterly plot points. Quarterly series are also identified with a "Q" after their titles. For series which include a moving average, a dashed line is used for the actual monthly data and a solid line for the moving average. (The moving average values are centered within the span of months they are computed from.) Exceptions to this scheme may be necessary for special situations. Data apply to the whole period except for series designated "EOM" (end of month) or "EOQ" (end of quarter). The number in the box at the right of each series indicates the latest month (Arabic) or quarter (Roman) plotted. Parallel lines across a series indicate a break in continuity (e.g., data not available or change in series definition).

Tables 1, 2, 3, and 4 present current data for the series shown in the charts, including the moving averages. They also include unadjusted data for some series and data for related series which are not plotted. Table A summarizes the most recent data and percent changes for many of the series in the report. Historical data are shown on an intermittent basis in appendix C. (The index indicates the appropriate issue for each series.)

The January issue of <u>DEFENSE INDICATORS</u> is scheduled for release on January 31.

Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators

(Preliminary and revised figures are not identified here but the user may consult tables 1, 2, 3, and 4 where such identification is given)

					Basic d	ata					Percent	change		per
Series title	Unit of	Aver	age							Sept. '76	Oct. '76	1st Q '76	2d Q '76	number
SULFID CITO	measure	1974	1975	1st Q 1976	2d Q 1976	3d Q 1976	Sept. 1976	Oct. 1976	Nov. 1976	to Oct. '76	to Nov. '76	to 2d Q '76	to 3d Q '76	Series
GROSS NATIONAL PRODUCT AND NATIONAL DEFENSE PURCHASES														
00. Gross national product (BEA)	Ann. rate, bil. dol	1413.2	1516.3	1636.2	1675.2	1709.8						2.4	2.1	2
54. Federal Government purchases of goods and services, national defense (BEA)	do	77.3		86.2	86.9	88.5						0.8	1.8	2
National defense purchases as a percent of GNP (BEA) ¹	Percent	5.5	5.6	5.3	5.2	5.2					•••	-0.1	0.0	6
ADVANCE INDICATORS OF DEFENSE ACTIVITY														
efense Dept. gross obligations incurred (DOD):	Ann. rate,													
617. Total	bil. dol	93.9	98.5	99.7	105.6	101.5	125.1	147.1	NA	17.6		5.9	-3.9	6
621. Procurement	do	20.6		21.1	24.7	24.1	26.4	24.9	NA	-5.7		17.1	-2.4	(
Government for national defense (Treasury)	do	101.1	104.1	116.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	6
awards for work performed in the U.S. (DOD) 43. Defense Department gross unpaid obligations	Bil. dol., end	41.4	43.3	50.8	43.9	43.3	59.1	NA	NA	NA	NA	-13.6	-1.4	6
outstanding (DOD).	of period	40.0	40.9	41.9	44.1	42.0	42.0	45.7	NA	8.8	NA	5.3	-4.8	1
18. Mfrs, new orders, defense products (Census)	Ann. rate, bil. dol	22.8	21.2	23.2	26.2	17.7	17.6	29.2	28.4	65.9	-2.7	12.9	-32.4	١.
50. Manufacturers' new orders from the U.S. Government, aerospace industries (Census)	do	19.1	18.3	21.7	19.5	NA						-10.1	NA	١,
53. Average weekly overtime hours, production	Hours	2.8		2.6	2.4	2.6	2.3	2.5	NA				0.2	
workers, defense products industries (BLS) ¹	Number per 100													
(BLS) ¹ . 55. Layoffs, defense products industries (BLS) ¹	employees	0.6		1.6	1.5	0.8	0.8	NA NA	NA NA			-0.1 -0.2	0.0	1
INTERMEDIATE AND FINAL INDICATORS OF DEFENSE ACTIVITY														
57. Output of defense and space equipment (FRB)	1967=100 Bil. dol., end	82.4	80.0	77.7	77.9	78.4	78.5	78.5	78.7	0.0	0.3	0.3	0.6	1
	of period	6.5			8.5	8.5	8.5	8.5	NA				0.0	
61. Mfrs.' unfilled orders, defense products (Census) 64. Manufacturers' unfilled orders from the U.S.	do	24.6			26.6	25.7	25.7	26.1	26.7	1.6	2.3	3.9	-3.4	ı
Government, aerospace industries (Census)	do	20.7	21.8	22.6	22.5	NA			***			-0.4	NA	ı
standing (DOD) (Q)	do	9.2	11.3	9.8	12.0	11.9						22.4	-0.8	ı
670. Total	Thousands	1,177			1,069		1,059	1,056					-1.2	
671. Production workers	do	618			535	524	528	525	9				-2.1	1
products industries (BLS)	1967=100	69.4	66.0	63.7	62.8	62.3	62.0	62.5	NA	0.1	B NA	-1.4	-0.8	1
workers, defense products industries (BLS) efense Department personnel (DOD):	do	98.2	100.5	100.9	99.6	100.2	101.0	102.8	N.F	1.1	8 NA	-1.3	0.6	1
677. Military, active duty	Thousands, end													ı
678. Civilian, direct hire employment	of period do Ann. rate,	1,043				2,084	2,084 997	2,086 995					-1.3	
 Total, military functions and military assistance. 	bil. dol		88.5	83.9	85.7	95.8	93.5	91.2	87.4	-2.	5 -4.2	2.1	11.8	
682. Procurement	do	15.5	16.2	15.0	16.9	15.2	17.1	15.6	19.4	-8.	8 24.4	12.7	-10.1	
(Treasury)	do						94.8							
18. Mfrs, 'shipments, defense products (Census)	do	33.5					36.1 22.0							
aerospace industries (Census)	do	15.2	17.3	18.2	20.2	NA NA						11.0	NA	1
defense products (Census)	Ratio	14.5	5 14.9	13.4	14.2	14.5	14.0	13.3	14.	8 -5.	0 11.:	6.0	2.1	
93. Ratio, manufacturers' inventories to shipments, defense products (Census)	do	3.5	9 4.3	4.2	4.5	4.8	4.6	4.3	N/	A -6.	5 N	7.1	6.7	
DEFENSE-RELATED BALANCE OF PAYMENTS COMPONENTS														
546. Transfers under U.S. military agency sales	Ann. rate,													
contracts—exports (BEA) ¹ . 547. Direct defense expenditures—imports (BEA) ¹ (a)	mil. dol do				4,29						1			
			5 4,78	J# 4.0Ui	4,870	4,884						. 276	, 1	0

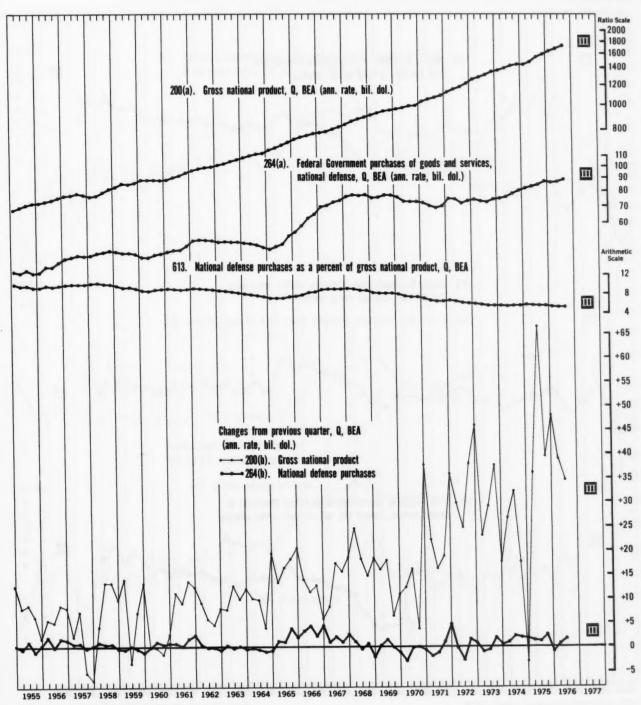
NOTE: This table is presented as a convenient summary of the current data for many of the indicators in this report. In many cases, data shown here are rounded to fewer digits or are in different units than those shown in tables 1, 2, 3, and 4. Where available, annual figures are those published by the source agencies; otherwise they (and the quarterly figures for monthly series) are averages or totals of the data as shown in the data tables. Series are seasonally adjusted except for those indicated by ③, which appear to contain no seasonal inversent.

NA = not available.

*Differences rather than percent changes are shown for this series.

CHART

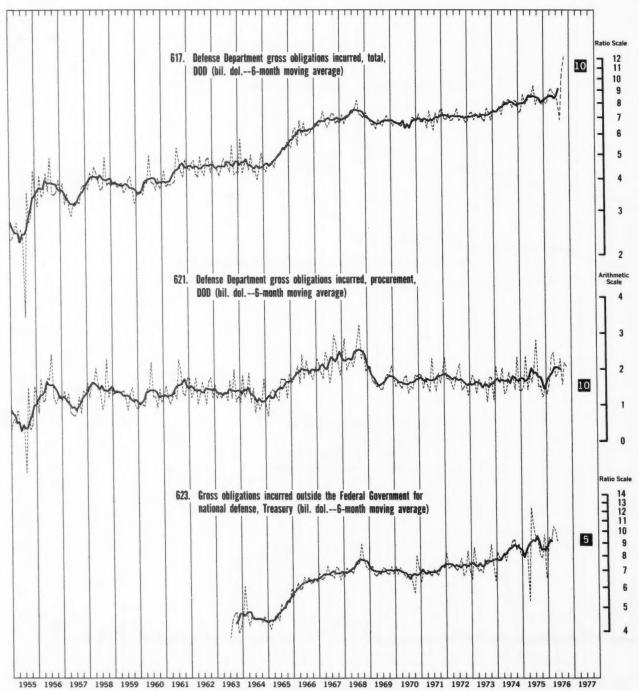
Gross National Product and National Defense Purchases



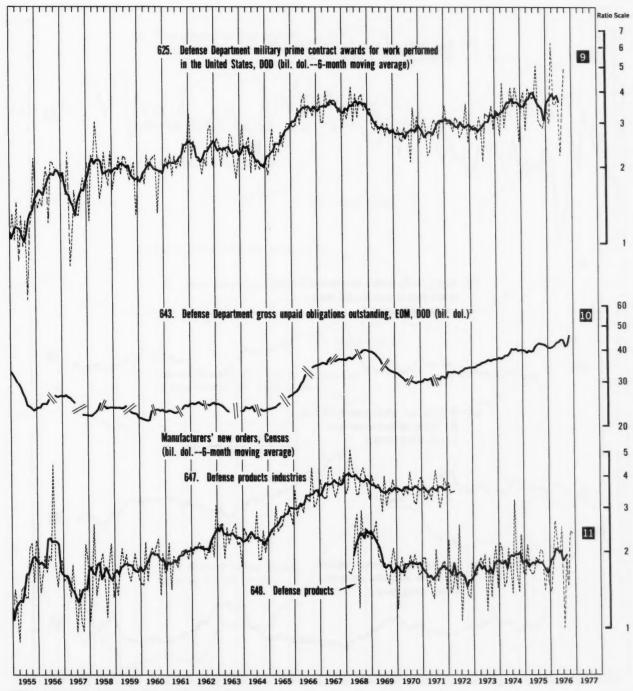
Current data for these series are shown on page 14.



Advance Indicators of Defense Activity



Advance Indicators of Defense Activity--Continued

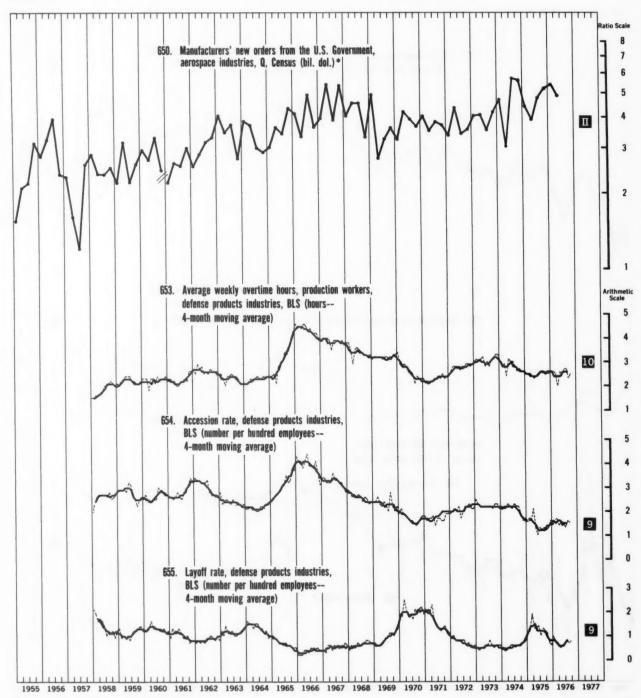


¹ Data prior to July 1955 exclude orders written to other Government agencies.

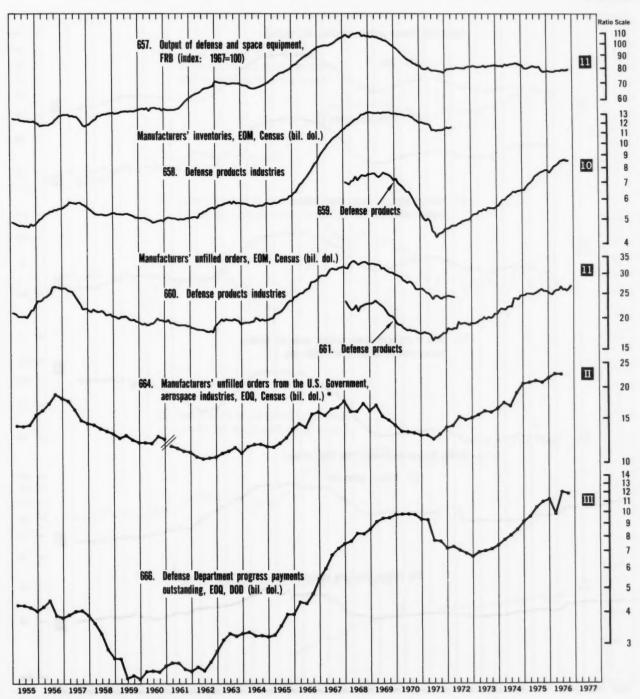
² Data for the following months not available: July of 1956-71; August of 1956-57 and 1963-66; September of 1957, 1963, and 1965; and October and November of 1963. Current data for these series are shown on pages 16 and 20.



Advance Indicators of Defense Activity--Continued

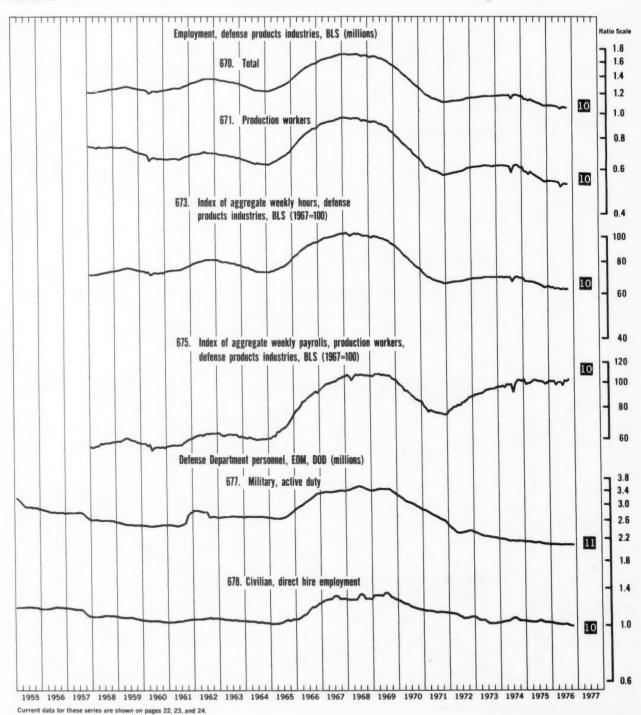


^{*}Data prior to 1961 include orders from non-Government customers. Current data for these series are shown on pages 20 and 21.

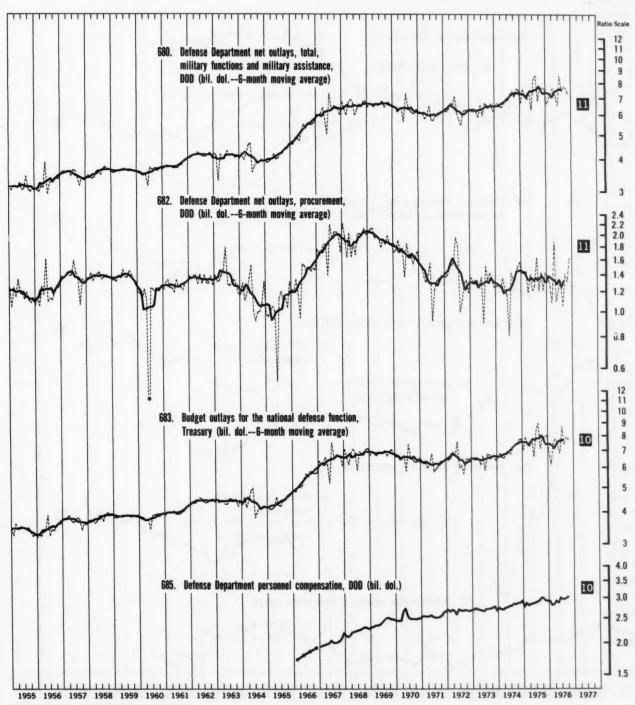


*Data prior to 1961 include orders from non-Government customers. Current data for these series are shown on page 22.



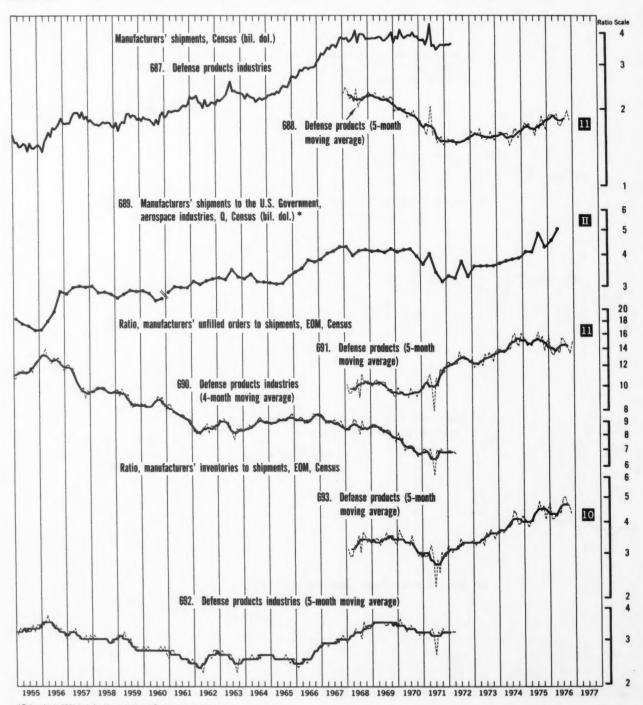






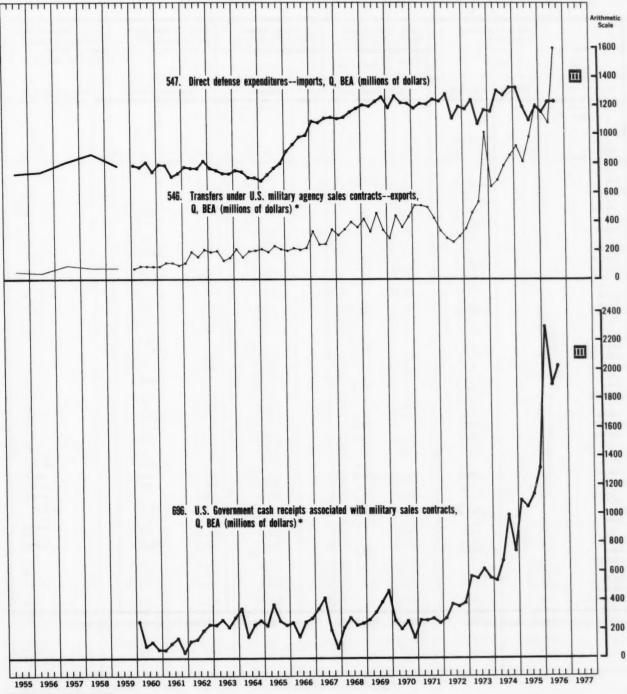
*Net expenditures for procurement, June 1960--\$245 million. Current data for these series are shown on pages 24 and 25.





*Data prior to 1961 include shipments to non-Government customers. Current data for these series are shown on page 26.

Defense-Related Balance of Payments Components



♦See footnotes 1 and 2 on page 27.

Current data for these series are shown on page 27.



Gross National Product and National Defense Purchases

	200(a). Gross national product, BEA*	264(a). Federal Govern- ment purchases of goods and services, national defense, BEA*	613. National defense purchases as a percent of gross national product, BEA*	200(b). Change in gross national product, BEA*	264(b). Change in Federal Government purchases of goods and services, national defense, BEA*
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Percent)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)
1974					
nuary	***			17.6	0.5
ebruary	1,372.7	74.9	5.5	• • •	•••
arch	***	***	***	•••	***
oril				26.7	1.0
ay	1.399.4	75.9	5.4		
ne	-,,,,,				
ly				20.0	
ugust	1,431.6	78.2	5.5	32.2	2.3
ptember	19471.0	***			
ctober	7 110 0	20.2	***	17.6	2.0
ecember	1,449.2	80.2	5.5	•••	***
1975	***	***	***	***	
nuary				-3.0	1.8
ebruary	1,446.2	82.0	5.7	-5.0	1.0
arch		***			
pril				-/ -	
ay	1,482.3	83.4	5.6	36.1	1.4
ine	19402.9	•••	***	•••	***
ıly					
ugust	1,548.7	84.6	5.5	66.4	1.2
eptember	1,040.7	•••		• • •	***
ctober					
ovember	1,588.2	87.1	5.5	39.5	2.5
ecember	1,700.2	01.1		***	•••
1976					
nuary	***			48.0	-0.9
ebruary	1,636.2	86.2	5.3	40,0	
arch	2,0000	•••		***	•••
pril	• • •			39.0	
ay	1,675.2	86.9	5.2	39.0	0.7
ine		***	***	***	***
ıly				r34.6	1.6
ugust	rl,709.8	88.5	5.2	174.0	1.6
ctober					
ctober					

Note: All data on this page are seasonally adjusted. NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 5.)

Advance Indicators of Defense Activity

			Defe	ense Department gross	s obligations incurred	, DOD		
Year		617. Total		619. 0	Operations		621. Procurement	
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data-6-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974								
January	8,113	7,527	7,374	4,991	4,714	2,337	2,077	1,689
February	6,826	7,398	7,390	4,187	4,758	1,677	1,708	1,731
March	6,613	7,485	7,368	4,377	4,699	1,381	1,642	1,658
April	7 275	7 760	7 500	/ 000	, 901	2 516	2.040	3 800
May	7,375	7,762	7,588	4,982	4,804	1,546	2,040	1,702
June	6,104	8,166	7,810	4,434 6,170	4,662 5,466	2,465	1,330 1,412	1,675
Julie	10,110	0,100	7,010	0,170	5,400	2,400	1,412	1,072
July	9,285	7,983	7,926	5,901	5,110	1,332	1,919	1,706
August	8,874	8,279	7,912	5,224	5,203	1,416	1,692	1,607
September	7,790	8,179	8,083	4,771	5,040	1,919	1,842	1,777
Ostobor	7,965	7,681	8,075	5,394	4,999	1,709	1,446	7 700
October November	7,600	8,211	7,968	4,471	4,786	2,281	2,349	1,780
December	7,260	8,116	7,832	4,826	5,334	1,646	1,431	1,667
1975	1,200	0,110	1,052	4,020	2,224	2,040	-,401	1,007
January	8,252	7,341	7,916	5,471	5,148	1,895	1,424	1,751
February	6,904	7,467	7,958	4,604	5,220	1,569	1,509	1,748
March	7,526	8,677	7,956	4,787	5,251	1,994	2,349	1,665
April	7,403	7,933	8,033	5,424	5,209	1,147	1,425	1,700
May	6,796	8,199	8,246	4,761	5,121	1,147	1,850	1,808
June	11,027	8,583	8,569	6,275	5,560	2,693	1,642	2,027
July	9,903	8,614	8,440	6,641	5,624	1,510	2,074	2 007
August	9,812	9,406	8,516	5,337	5,327	2,508	2,821	1,891
September	7,705	7,907	8,494	5,203	5,442	1,506	1,535	1,808
	1,,,,,	1,,,,,	0,474	,,	7,44	2,,,00	-,,,,,	1,000
October	9,045	8,387	8,385	6,130	5,660	1,733	1,543	1,784
November	6,976	8,069	8,304	4,829	5,334	1,320	1,234	1,658
December	7,156	7,925	8,064	4,895	5,373	1,428	1,494	1,456
1976								
January	8,652	8,132	8,220	6,010	5,729	1,697	1,321	1,592
February		7,962	8,344	4,745	5,203	1,664	1,611	1,745
March		8,842	8,461	4,995	5,354	2,093	2,349	1,836
April	8,677	9,134	0 556	5 016	E 770.	2 600	0.465	2 000
May		8,772	8,556	5,946 4,828	5,784	1,688	2,461 1,780	1,909
June	11,319	8,491	8,553	5,949	5.059	3,218	1,930	2,069
			1					
July		8,116	8,628	6,362	5,369	1,812	2,285	2,035
August		6,833	p9,148	5,055	5,010 6,335	1,458	1,556 2,196	pl,970
September	9,840	10,424	(NA)	6,120	6,335	2,152	2,196	(NA)
October	p12,635	pl2,255		p7,447	p7,012	p2,312	p2,075	
November		(NA)		(NA)	(NA)	(NA)	(NA)	
December		(4474.)		(442)	(442)	(2005)	(248)	

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 6.)

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Advance Indicators of Defense Activity--Continued

	623. Gross ob outside the Fer ment for nation			Defense Department military prime contract awards for work performed in the United States, DOD									
Year	Treasury			625. Total		626.	Aircraft		le and space stems				
and month	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted				
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)				
1974													
January	8,264 7,874 7,819	7,784 7,673 7,712	3,084 2,613 2,602	3,378 3,141 2,677	3,123 3,317 3,212	1,093 598 517	2,424	206 305 255	84.				
April	8,270 7,647 p8,534	p8,068 p8,112 p8,333	3,127 2,250 6,086	4,343 2,881 3,440	3,310 3,329 3,498	459 308 502	1,104	303 297 323	1,27				
July	8,526 9,202 9,326	p8,584 p8,623 p8,842	3,924 4,091 3,586	3,494 4,153 3,502	3,636 3,605 3,754	1,089 591 866	2,446	618 430 848	1,44				
October	8,503 8,963 8,139	8,776 8,700 8,545	4,165 3,207 2,616	4,161 3,777 2,532	3,603 3,636 3,609	1,156 856 569	2,900	410 434 361	1,10				
January February March	8,069 8,271 8,590	8,422 7,894 8,472	3,567 3,321 2,625	3,693 3,987 2,817	3,494 3,488 3,513	1,062 509 421	2,147	346 276 244	986				
April	5,335 12,426 pl0,487	p8,863 p9,084 p9,259	2,914 2,713 6,626	4,122 3,926 3,773	3,720 3,744 3,925	316 386 732	1,240	37 7 242 537	1,652				
July	9,397 9,321 8,092	p9,176 p9,592 p9,137	4,376 5,295 3,179	3,842 5,072 3,080	3,969 3,776 3,600	810 1,254 469	2,471	661 1,070 379	1,586				
October	7,830 9,697 6,537	8,479 8,492 8,467	3,174 2,608 2,870	2,961 2,872 3,130	3,493 3,420 3,074	817 373 483	1,807	463 498 426	1,327				
anuary February March	9,476 9,168 10,511	8,870 9,235 9,142	3,288 2,529 5,356	3,407 2,993 6,309	3,612 3,716 3,832	546 356 2,064	3,008	341 278 243	1,027				
April	10,022 9,137 (NA)	(NA)	2,600 2,563 6,843	3,586 3,565 3,817	3,946 3,751 3,863	326 576 1,562	2,399	290 213 602	1,503				
uly			2,592 3,969 r4,934	2,234 3,665 r4,929	r3,633 (NA)	416 914 7 99	2,012	287 422 521	889				
October			(NA)	(NA)		(NA)		(NA)					

TABLE 2

Advance Indicators of Defense Activity--Continued

			Defense Department mi in the	litary prime contract av United States, DOD-C		ed		
Year	628. Ships, not seasonally adjusted	629. Weapons	and ammunition		and communications ipment	631. Combat vehicles		
and month		Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1974								
January February March	52 212 103	135 244 142	541	311 415 206	1,013	102 5 40	253	
April	190 155 1,175	170 123 554	680	403 270 732	1,110	129 98 404	502	
July	230 625 134	37 72 111	453	321 402 352	1,316	59 104 151	249	
October	210 328 109	122 114 165	334	598 349 254	1,239	25 22 81	120	
January February March	251	125 160 217	515	414 331 535	1,379	21 66 52	28	
April		147 128 672	683	313 587 6%	1,255	23 86 161	19	
July	814	52 126 95	630	394 470 430	1,559	126 70 90	25	
October November December	114	128 66 146	303	439 445 332	1,277	67 14 62	17	
1976 January February March	124	76 101 148	341	263 305 442	1,079	48 26 61	23	
April	65	158 135 450	493	348 381 735	1,172	32 63 512	41	
July	. 91	52 90 418	1,349	207 506 664	1,590	150 119	24	
October		(NA)		(NA)		(NA)		

NA=not available; p=preliminary; r=revised; e=estimated.

U

defense indicators



Advance Indicators of Defense Activity--Continued

Mil. dol. Mil.				Defense Depar	tment military prime in the United State	contract awards for v s, DOD—Continued	vork performed		
April	Vear	632. Oth	er hard goods	633. S	Soft goods	634. Co	onstruction	ruction 635. S	
1974	and								Seasonally adjusted
January 128		(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
February 111									
February 111	January			297		90		204	
March 179	February	111	467	145	1.374	52	258		90
April 294 344 248 166 May 139 564 214 1,081 58 504 168 June 352 256 604 524 July 163 338 131 451 August 158 677 819 890 148 601 303 September 129 219 112 233 Clother 138 446 November 127 391 226 692 126 578 185 December 135 222 104 181 1975 January 154 217 168 307 February 143 497 704 1,489 134 481 341 March 152 191 127 201 April 147 164 156 190 May 165 487 121 658 291 838 211 June 399 213 1,073 574 August 115 532 3077 937 61 486 570 September 156 655 210 Clother 201 173 149 204 Clother 201 173 149 204 Clother 201 176 129 Growther 156 631 224 687 56 605 210 Barranter 156 655 210 Clother 201 176 149 204 December 156 631 224 687 56 605 210 December 179 244 176 121 1876 January 190 817 85 204 April 176 129 January 190 817 85 244 May 1380 590 330 1,611 107 448 256 May 159 434 120 780 213 611 158 June 316 243 791 587 June 317 321 792 335 June 324 791 335 June 324 791 587 June 326 791 587 June 326 326 326 326 326 326 326 326 326 3		179		487					
May 139 564 214 1,081 58 504 168 June 352 256 131 451 July 163 338 131 451 August 158 677 819 890 148 601 303 September 129 219 123 446 November 127 391 226 692 126 578 185 December 135 222 104 181 1975 168 267 704 1,4389 134 481 341 1975 168 307 766 127 168 307 766 181 207 168 307 168								201	
June 352 256 604 524 July 163 338 131 451 August 158 677 819 890 148 601 303 September 129 219 112 233 October 108 267 138 446 November 127 391 226 692 126 578 185 December 135 222 104 181 1975 January 154 217 168 307 February 152 154 217 April 147 164 156 190 May 165 487 121 658 291 838 211 June 399 213 1,073 574 July 104 811 82 634 August 115 532 307 937 61 486 570 September 156 631 214 687 56 605 210 December 179 244 176 149 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 January 190 817 85 244 April 173 221 198 179 January 190 817 85 244 April 173 221 198 199 April 173 221 198 244 April 173 221 198 199 April 173 221 198 199 April 173 221 198 199 April 177 221 198 199 April 177 221 198 199 April 177 221 198 April 177 335 April 177 335 April 177 335 April 177 335 April 177 336 April 177 335 April 177									
June 352 256 604 524 524 July 163 338 131 451 451 451 338 131 451 451 338 129 112 233 233 129 112 233 233 129 112 233 233 446 129 122 128 446 127 126 578 185 446 127 126 127 128 129 120 121 121 121 125 122 104 181 127 168 307 127 168 307 127 168 307 127 128 127 128 127 128 127 129 127 120 127 120 127 120 127 120 127 120 127 120 127 120 127 120 127 120 127 120 127 120 127 120			564		1,081	58	504	168	84
August 158 677 819 890 128 601 303 September 129 219 138 233 October 108 267 138 446 November 127 391 226 692 126 578 185 December 135 222 104 181 1975 152 168 307 76 76 76 181 182 183 181 181 182 182 183 181 182 183 181 182 <td< td=""><td>June</td><td>352</td><td>• • •</td><td>256</td><td></td><td>604</td><td></td><td></td><td></td></td<>	June	352	• • •	256		604			
August 158 677 819 890 128 601 303 September 129 219 138 246 October 108 267 138 446 November 127 391 226 692 126 578 185 December 135 222 104 181 1975 168 307 764 1,489 134 481 341 1976 164 166 307 764 1,489 134 481 341 341 March 164 156 190 100 100 100 100 100 100 100 100 100 100 100 100 100 100	lube	762		222		205			
September 129 219 112 233									
October 108 267 138 446 November 127 391 226 692 126 578 185 December 135 222 104 181 1975 222 104 181 1975 222 104 181 January 154 217 168 307 February 143 497 704 1,489 134 481 341 March 152 191 127 201 April 147 164 156 190 May 165 487 121 658 291 838 211 July 104 811 82 634 <td>August</td> <td></td> <td></td> <td></td> <td>890</td> <td></td> <td>601</td> <td></td> <td>76</td>	August				890		601		76
November 127 391 226 692 126 578 185 December 135 222 104 181 1975 January 154 217 168 307 February 143 497 704 1,489 134 481 341 March 152 191 156 May 165 487 121 658 291 838 211 June 399 213 1,073 574 July 104 811 82 634 August 115 532 307 937 61 486 570 Esptember 150 256 178 204 Doctober 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 January 190 817 85 February 180 590 330 1,611 107 448 256 March 166 187 198 230 April 173 198 224 July 190 817 85 July 210 April 173 198 224 July 216 January 190 817 85 July 216 January 190 817 85 July 217 198 224 July 218 230 April 173 129 221 198 179 July 222 287 July	September	129		219		112		233	
November 127 391 226 692 126 578 185 December 135 222 104 181 1975 January 154 217 168 307 February 143 497 704 1,489 134 481 341 March 152 191 156 May 165 487 121 658 291 838 211 June 399 213 1,073 574 July 104 811 82 634 August 115 532 307 937 61 486 570 Esptember 150 256 178 204 Doctober 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 January 190 817 85 February 180 590 330 1,611 107 448 256 March 166 187 198 230 April 173 198 224 July 190 817 85 July 210 April 173 198 224 July 216 January 190 817 85 July 216 January 190 817 85 July 217 198 224 July 218 230 April 173 129 221 198 179 July 222 287 July	October	7.08		267		120		116	
December 135									
1975 154 217 168 307 February 143 497 704 1,489 134 481 34									74
January 154		-277		LLL		104	***	181	••
February 143 497 704 1,489 134 481 341 March 152 191 127 201 April 147 164 156 190 190 121 658 291 838 211 190 190 190 190 190 190 190 190 190 1									
March 152 191 127 201 April 147 164 156 190 May 165 487 121 658 291 838 211 June 399 213 1,073 574 July 104 811 82 634 August 115 532 307 937 61 486 570 September 150 256 178 204 October 201 173 149 216 November 156 631 214 687 56 605 220 December 179 244 176 121 1976 187 85 244 January 190 817 85 244 March 166 187 151 230 April 173 <								307	
April 152 191 127 201 April 147 164 156 190 May 165 487 121 658 291 838 211 June 399 213 1,073 574 July 104 811 82 634 August 115 532 307 937 61 486 570 September 150 256 178 204 October 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 January 190 817 85 February 190 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 243 791 587 July 92 287 79 335 August 177 792 513 r646 196 1,073 504 Ratcher 190 1,073 504 April 92 287 79 335 August 177 792 513 r646 196 1,073 504 April 171 440 316 1,073 504 April 1976 1,073 504 August 177 792 513 r646 196 1,073 504			497		1,489		481	341	1,39
May 165 487 121 658 291 838 211 June 399 213 1,073 574 July 104 811 82 634 August 115 532 307 937 61 486 570 September 150 256 178 204 October 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 244 176 121 January 190 817 85 244 February 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434	March	152		191		127		201	
May 165 487 121 658 291 838 211 June 399 213 1,073 574 July 104 811 82 634 August 115 532 307 937 61 486 570 September 150 256 178 204 October 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 244 176 121 January 190 817 85 244 February 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434	April	1/7		16/		754		700	
June 399 213 1,073 574 July 104 811 82 634 August 115 532 307 937 61 486 570 September 150 256 178 204 October 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 1976 817 85 244 January 190 817 85 244 March 180 590 330 1,611 107 448 256 March 166 187 198 179 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316									
July 104 811 82 634 August 115 532 307 937 61 486 570 September 150 256 178 204 October 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 1978 85 244 February 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 287 79 335 August 177 792 513 r646 196 1,073 504 August 177 224 r171 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>92</td>									92
August 115 532 307 937 61 486 570 September 150 256 178 204 October 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 817 85 244 January 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 287 79 335 August 177 792 513 r646 196 1,07		1 2//		21)	•••	1,075		574	
August	July	104		811		82		631	
September 150 256 178 204 October 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 817 85 244 January 190 817 85 244 February 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 287 79 335 August 177 792 513 r646 196 1,	August	115	532	307					1,13
October 201 173 149 216 November 156 631 214 687 56 605 210 December 179 244 176 121 1976 January 190 817 85 244 February 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 243 791 587 July 92 287 79 335 August 177 792 513 r646 196 1,073 504 September 324 r171 403 403 1,073 504 August 177 792 513 r646 1,073 403 429 <td>September</td> <td>150</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(-, -)</td>	September	150							(-, -)
November 156 631 214 687 56 605 210 December 179 244 176 121 1976 January 190 817 85 244 256 187 151 230 April 173 221 198 179 159 434 120 780 213 611 158 June 316 243 791 587 July 92 287 79 335 September 324 r171 403 403 1.00 403	Ontobor	202							
December 179 244 176 121 1976									
1976 January 190 817 85 244 February 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 243 791 587 July 92 287 79 August 177 792 513 r646 196 1,073 504 September 324 r171 403					687		605		52
January 190 817 85 244 February 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 243 791 587 July 92 287 79 335 August 177 792 513 r646 196 1,073 504 September 324 r171 403 403 429		179	•••	244		176	• • • •	121	
February 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 243 791 587 July 92 287 79 August 177 792 513 r646 196 1,073 504 September 324 r171 403	1976	1							
February 180 590 330 1,611 107 448 256 March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 243 791 587 July 92 287 79 335 August 177 792 513 r646 196 1,073 504 September 324 r171 403 403 429	January	700		9377		4-			
March 166 187 151 230 April 173 221 198 179 May 159 434 120 780 213 611 158 June 316 243 791 587 July 92 287 79 335 August 177 792 513 r646 196 1,073 504 September 324 r171 403 429									
April 221 198 179 May 159 434 120 780 213 611 158 June 243 791 587 July 92 287 79 August 177 792 513 r646 196 1,073 504 September 324 r171 403 October (NA)									1,11
May 159 434 120 780 213 611 158 June 243 791 587 July 92 287 79 335 August 177 792 513 r646 196 1,073 504 September 324 r171 403 429				187		151		230	
May 159 434 120 780 213 611 158 June 243 791 587 June 287 79 335 August 177 792 513 r646 196 1,073 504 229 287 403 1,073 429						198		179	
July 92 287 791 587 July 92 287 79 335 August 177 792 513 r646 196 1,073 504 September 324 r171 403 429			434	120			1		88
July 92 287 79 335 August 177 792 513 r646 196 1,073 504 September 324 r171 403 429	June	316		243					00
August	luly								
August								335	
324 r171 403 429			792		r646		1,073	504	1,01
October (NA) (NA) (NA)	ooptomoor	324		r171		403			/
	October	(NA)		(NTA)		(274)			
November (NA)		(IVA)		(IVA)		(NA)		(NA)	
December	December								

NA=not available; p=preiminary; r=revised; e=estimated.

TABLE 2

Advance Indicators of Defense Activity--Continued

			ilitary prime contract at United States, DOD-C		ed		epartment military ract awards for
Year	636. Contrac	s under \$10,000		nal and nonprofit tutions	638. Civilian Health and Medical	work outsi	de the United s, DOD
and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Program of the Uniformed Services (CHAMPUS), not seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
anuary	327		76		63	160	
February	333	996	55	233	0	114	594
March	329		58		13	198	
						-/-	
April	384	***	37		0	80	
May	382	1,066	38	186	0	94	55
lune	570		70		20	333	
July	225		162		100	103	
August	321	1,116	118	243	100	421	1
September	380	1,110	51		0	448 120	63.
)1		1	120	
October	399		46		240	190	
November	374	1,204	59	187	7	93	55
December	343		92		0	111	
1975							
January	372				-	22.	
February	345	1,144	51 61	205	5 0	114	20
March	419	1,144	53		2	93 96	38
	41/		,,,	•••	~	70	
April	418		42		0	73	
May	367	1,141	35	201	0	86	81
June	635		76		0	558	
July	263		184		5	244	
August	345	1,218	92	253	1	149	31
September	409		80	•••	0	124	
October	374		67		0	252	
November	412	1,273	50	192	0	164	94
December	408		82		0	255	14
1976	400		0.2			~//	
January	327	•••	39		2	286	
February	416	1,156	48	163	2	95	68
March	405		44	• • •	2	139	
April	300		68		1	147	
May	430	1,100	50	254	0	93	60
June	625	1,100	73	204	1	306	60
					1	500	
July	253		74		0	208	
August	351	1,458	55	142	0	132	42
September	615		74		1	347	
Octobos	(374)		(374)		(MA)	(224)	
October November			(NA)		(NA)	(NA)	
December							
	1		1			1	1

NA=not available; p=preliminary; r=revised; e=estimated.

U



Advance Indicators of Defense Activity--Continued

		Defense Dep	partment gross unpa	aid obligations out	standing, DOD			nufacturers'	650. Manufac- turers' new
Year	643.	Total	644. Operations		645. Pr	ocurement	new orde	orders from the U.S. Govern- ment, aerospace	
and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	industries, Census, seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974									
January	38,249 37,963 37,249	37,280 37,001 37,436	7,425 7,055 6,779	6,959 6,964 7,189	23,791 24,032 23,847	23,143 23,175 23,634	2,183 2,064 1,462	1,852 1,802 1,794	4,705
April	37,264 35,601 37,545	38,141 38,076 38,947	7,044 6,476 7, 373	7,550 7,301 8,417	23,778 23,123 23,994	23,970 23,987 23,756	1,527 2,079 1,752	1,844 1,710 1,904	3,073
July	e39,626 40,594 41,055	e40,435 40,152 40,488	e8,149 8,426 8,311	e8,392 8,010 7,991	e24,316 23,791 24,283	e24,914 24,351 24,703	1,377 3,229 1,678	1,940 1,919 1,965	5,709
October	41,201 40,949 40,407	39,731 40,068 40,047	8,607 7,906 7,654	7,610 7,334 7,556	24,361 25,147 25,199	24,337 25,022 25,024	1,401 2,351 1,668	1,951 1,994 1,813	5,627
January	40,819 40,008 39,473	39,823 39,147 39,791	7,997 7,520 7,169	7,495 7,460 7,651	25,484 25,452 25,688	24,838 24,568 25,259	1,635 2,147 1,702	1,817 1,857 1,742	4,415
April	38,589 37,120 39,557	39,457 39,658 41,334	7,276 6,746 7,303	7,807 7,666 8,346	24,932 24,321 25,311	24,957 25,099 25,438	1,639 1,659 1,909	1,782 1,812 1,796	3,912
July	e41,470 43,248 43,084	e42,144 42,651 42,281	e8,733 8,677 8,677	e8,939 8,280 8,287	e25,167 26,070 26,002	e25,370 26,684 26,479	1,818 2,048 1,991	1,844 1,806 1,821	4,783
October	43,754 42,767 41,551	42,193 41,724 40,897	9,259 8,804 8,261	8,172 8,144 8,155	26,081 25,810 25,507	26,238 25,707 25,305	1,408 1,750 1,501	1,753 1,681 1,637	5,227
January	42,110 41,512 41,046	40,804 41,101 41,926	8,947 8,538 7,966	8,489 8,624 8,584	25,503 25,586 25,783	24,905 24,841 25,277	1,390 1,784 2,633	1,744 1,858 1,892	5,414
April	41,029 39,742 42,152	42,962 43,245 44,092	8,253 7,795 8,037	8,865 8,960 8,980	25,606 25,125 26,508	25,657 25,929 26,482	2,093 1,950 2,517	2,061 1,994 2,024	p4,872
July	43,366 42,525 43,351	43,804 41,286 42,048	8,939 8,569 8,615	8,842 8,061 8,158	26,537 26,346 26,832	27,162 26,802 27,185	989 1,963 1,468	1,830 r1,887 p1,957	(NA)
October	p47,890 (NA)	p45,740 (NA)	p10,624 (NA)	p9,427 (NA)	p27,632 (NA)	p27,827 (NA)	r2,435 p2,369		

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See pages 7 and 8.)

TABLE

Advance Indicators of Defense Activity--Continued

		veekly overtime ho rfense products ind		654. Ac	cession rate, defens industries, BLS	e products	655. La	yoff rate, defense p industries, BLS	roducts
Year and month	Not seasonally adjusted	Seasonally adusted*	Moving average of seasonally adjusted data—4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data- 4-month*
	(Hours)	(Hours)	(Hours)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)
1974									
January	2.9 2.7 2.8	3.0 2.8 2.9	3.1 3.0 2.8	2.1 1.8 1.9	2.2 2.1 2.1	2.2 2.1 2.2	0.6 0.6 0.6	0.4 0.5 0.4	0.5 0.5 0.4
April	2.1 2.8 3.0	2.4 3.1 3.0	2.8 2.8 2.9	2.1 2.2 2.8	2.3 2.2 2.1	2.2 2.2 2.2	0.6 0.5 0.5	0.5 0.6 0.6	0.5 0.5 0.5
July	2.7 2.8 2.9	3.0 2.8 2.6	3.0 2.8 2.8	2.6 2.6 2.6	2.3 2.2 2.2	2.2 2.2 2.1	0.4 0.5 0.5	0.5 0.6 0.6	0.6 0.6 0.6
October	2.8 2.9 3.0	2.7 2.6 2.6	2.7 2.6 2.6	2.1 1.3 0.9	1.9 1.6 1.7	2.0 1.8 1.7	0.7 0.8 0.8	0.7 0.7 0.8	0.6 0.7 0.8
January February March	2.4 2.4 2.3	2.5 2.5 2.5	2.6 2.5 2.5	1.4 1.3 1.3	1.6 1.6 1.6	1.6 1.6 1.7	1.2 1.3 2.1	1.1 1.2 1.9	1.0 1.2 1.4
April	2.0	2.4 2.3 2.4	2.4 2.4 2.4	1.9 1.3 1.7	2.1 1.3 1.0	1.6 1.5 1.4	1.4 1.3 1.3	1.3 1.3 1.4	1.4 1.5 1.2
July	2.6	2.5 2.6 2.5	2.4 2.5 2.6	1.6 1.6 1.7	1.3 1.2 1.3	1.2 1.2 1.2	0.8 1.2 1.0	1.0 1.3 1.2	1.2 1.2 1.2
October	2.7	2.6 2.5 2.5	2.6 2.5 2.6	1.4 1.0 0.8	1.2 1.3 1.6	1.2 1.4 1.4	1.0 0.8 0.6	1.1 0.7 0.6	1.1 0.9 0.8
1976 January February March	2.5	2.6 2.6 2.5	2.6 2.6 2.4	1.3 1.3 1.5	1.4 1.6 1.7	1.5 1.6 1.5	1.1 0.8 0.8	1.0 0.7 0.7	0.8 0.8 0.7
April	2.3	2.0 2.6 2.5	2.4 2.4 2.4	1.2 1.6 2.1	1.4 1.6 1.5	1.6 1.6 1.4	0.6 0.6 0.6	0.5 0.6 0.7	0.6 0.6 0.6
July	2.7	2.7 2.7 2.3	2.6 2.6 p2.6	1.6 2.0 1.9	1.3 1.6 1.5	1.5 1.5 (NA)	0.7 0.6 0.6	0.8 0.7 0.8	0.7 0.8 (NA)
October November December	. (NA)	p2.5 (NA)	(NA)	(NA)	(NA)		(NA)	(NA)	

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 8.)



Company	664. Manufacturers' unfilled orders	666. Defense Department progress		ment in defense stries, total, BLS			
and		seasonally adjusted* seasonally adjusted*		from the U.S. Gov- ernment, aerospace industries, Census, seasonally adjusted*	payments out- standing, DOD, not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
		(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Thous.)	(Thous.)
1974							
January	81.9	5,679	21.372			1,181	1,177
February						1,176	1,176
March	81.8			17,378	7,781	1,175	1,180
April	81.1	5.978	21 622			1,174	1 101
					•••	1,174	1,181
				16,847	8,104	1,175	1,179
July	82.6	6 303	22 208			1 176	2.204
						1,176	1,184
September				19,002	8,531	1,185	1,181
October	83.7	6-463	23.715			1,196	1,188
			24,530			1,196	1,183
				20,662	9,166	1,184	1,171
1975			.,	,	,,	2,204	1
January			24,603			1,178	1,175
		6,714	24,998			1,141	1,141
March	79.7	6,867	24,986	20,907	9,609	1,137	1,142
April	80.2	6,978	24,883			1,121	1,128
	80.9	7,110	24,875			1,131	1,140
June	81.6	7,367	25,118	21,230	10,464	1,123	1,127
July	81.0	7,455	25,368			1,110	1,117
August	80.6	7,575	25,685			1,100	1,108
September	81.2	7,687	26,011	20,906	11,008	1,104	1,100
October	78.5	7,730	25,552			1,097	1,090
November						1,089	1,07
December	77.7	7,806	25,403	21,776	11,257	1,088	1,075
1976							
January	78.0	7,642	24,942			1,084	1,081
February	77.6	7,845	24,827			1,075	1,076
March	77.4	8,082	25,574	22,596	9,848	1,071	1,077
April	77.3	8,165	25,805			1,066	1,072
May	78.2	8,272	25,831			1,061	1,070
June	78.3	8,473	26,620	p22,537	12,041	1,060	1,062
July	78.0	8,554	25,896			1,043	1,050
August	r78.6	8,594	26,043			1,053	1,060
September	r78.5	8,526	25,676	(NA)	11,881	r1,062	1,05
October	r78.5	8,490	r26,141			rl,063	rl,05
November	p78.7	(NA)	p26,710			(NA)	(NA)
December					1		

NA=not available; p=preliminary; r=revised; e=estimated.

*Indicates series shown in charts. (See pages 9 and 10.)

		efense products industries, workers, BLS		te weekly hours, defense ndustries, BLS	675. Index of aggregate weekly payrolls, productio workers, defense products industries, BLS				
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*			
	· (Thous.)	(Thous.)	(1967=100)	(1967=100)	(1967=100)	(1967=100)			
1974									
January	627	623	69.8	69.8	96.7	96.5			
	623	622	69.6	69.6	96.5	96.3			
	621	624	69.7	69.9	97.0	97.2			
April	620	624	68.7	69.4	94.1	95.9			
	615	622	69.4	69.8	97.6	98.7			
	616	620	69.3	69.5	96.9	98.0			
July	612	618	68.7	69.8	94.9	98.5			
	576	584	66.3	67.0	89.6	91.9			
	621	619	69.7	69.3	99.8	99.0			
October	632	627	70.4	70.0	103.2	102.0			
	634	624	70.7	69.5	105.3	102.2			
	623	611	70.5	69.1	106.3	101.2			
January February March	618	615	69.2	69.2	102.8	102.6			
	589	589	67.0	67.0	98.6	98.4			
	585	588	66.8	67.0	99.1	99.4			
April	570	574	66.1	66.8	97.6	99.5			
	581	588	66.5	66.8	100.2	101.3			
	573	577	66.4	66.6	101.2	102.3			
July	564	570	65.0	66.1	97.9	101.7			
	555	563	64.9	65.6	98.3	101.0			
	558	556	65.5	65.1	102.0	101.2			
October	554	549	64.9	64.5	101.5	100.4			
	549	540	64.6	63.5	101.8	98.7			
	549	538	65.0	63.8	104.9	99.8			
January	545	542	64.1	64.1	101.3	101.1			
February	540	540	63.5	63.5	100.7	100.4			
March	537	539	63.3	63.6	100.8	101.1			
April	533	537	62.0	62.7	96.1	98.1			
	530	536	62.6	63.0	99.2	100.2			
	529	533	62.6	62.8	99.4	100.5			
July	510	516	61.2	62.2	96.0	97.7			
	520	528	62.0	62.7	99.2	102.0			
	529	528	r62.4	r 62.0	rl01.9	r101.0			
October	r529	r525	p62.9	p62.5	pl04.0	pl02.8			
	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)			

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 10.)



	Defense Departme	ent personnel, DOD	Defense Department net outlays, DOD									
Voor	677. Military, active duty, not seasonally	678. Civilian, direct hire employment,	680. Tota	al, military functions ar assistance	681. 0	perations						
rebruary April Alay August August Alay August Alay August Alay August Alay August Alay Alay Alay Alay Alay Alay Alay Alay	adjusted*	not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted					
	(Thous.)	(Thous.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)					
1974												
January February March	2,199 2,195 2,187	1,034 1,039 1,042	6,728 6,384 6,702	6,538 6,717 6,536	6,524 6,527 6,537	4,376 4,137 4,398	4,333 4,313 4,364					
April	2,174 2,156 2,162	1,046 1,053 1,070	6,685 7,204 7,872	6,458 6,745 6,894	6,648 6,712 6,801	4,367 4,718 4,835	4,221 4,536 4,296					
July	2,162 2,153 2,157	1,074 1,064 1,049	5,979 6,897 6,948	6,921 7,254 7,463	6,956 7,068 7,218	4,628 4,804 4,575	4,917 4,957 4,828					
October	2,156 2,154 2,140	1,046 1,046 1,043	7,271 7,473 7,451	7,130 7,648 7,549	7,328 7,302 7,358	4,817 4,912 4,742	4,853 5,042 4,843					
January	2,145 2,146 2,137	1,038 1,036 1,034	7,051 7,258 7,244	6,766 7,590 7,190	7,312 7,284 7,258	4,775 4,727 4,736	4,605 4,907 4,778					
April	2,127 2,124 2,128	1,034 1,035 1,042	7,190 7,780 7,476	6,958 7,494 6,336	7,056 7,308 7,475	4,960 4,909 4,954	4,744 4,963 4,395					
July	2,129 2,111 2,105	1,052 1,038 1,030	7,124 7,961 6,631	8,278 8,594 6,880	7,423 7,552 7,566	4,918 5,081 4,810	5,154 5,24 5,08					
October		1,031 1,029 1,028	7,913 7,203 7,695	7,732 7,574 7,672	7,788 7,515 7, 251	5,260 4,997 5,078	5,213 5,13 5,06					
January	2,093	1,023 1,019 1,016	6,649 6,962 7,642	6,636 7,011 7,334	7,326 7,322 7,259	4,887 4,848 5,026	4,89 4,82 4,96					
April	2,081	1,011 1,010 1,010	7,872 7,042 7,843	7,703 7,200 6,525		5,297 4,889 5,170	5,19 5,03 4,68					
July	2,085	1,014 1,006 997	7,433 7,163 r7,513	8,663 7,493 r7,794	7,546	5,050 5,059 r5,457	5,26 5,10 r5,58					
October	p2,082	995 (NA)	7,478 p7,287	7,600 p7,280		4,984 p5,273	5,05 p5,30					

NA=not available; p=preliminary; r=revised; e=estimated.

*Indicates series shown in charts. (See pages 10 and 11.)

	Defense Depa	artment net outlays, DO	D-Continued		ays for the national ction, Treasury	685. Defense Dep compensa	artment personnel tion, DOD
Year		682. Procurement		Seasonally adjusted*	Moving average of seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data-6-month*		data—6-month*		
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
January	1,270	1,262	1,300	6,569	6,613	2,879	2,738
February	1,195	1,276	1,289	6,835	6,617	2,651	2,702
March	1,313	1,241	1,268	6,579	6,640	2,700	2,687
Ancil	7 200	7 255	1 251	L ELF	6 000	0.000	0.800
April	1,382	1,355	1,254 1,179	6,567 6,874	6,733 6,768	2,750 2,817	2,739
June	1,346	1,165	1,204	6,973	6,831	2,710	2,745
Julio	1,740	1,10)	1,204	0,7/7	0,0)1	2,710	2,102
July	801	810	1,221	6,783	6,962	2,835	2,793
August	1,348	1,425	1,224	7,212	7,112	2,814	2,837
September	1,251	1,343	1,270	7,362	7,254	2,741	2,823
October	1,455	1,377	1,338	7,467	7,393	2,869	2,86
November	1,372	1,501	1,440	7,727	7,436	2,827	2,86
December	1,439	1,569	1,444	7,809	7,550	2,874	2,92
1975	1,407	1,507	-,,,,,,	7,007	1,,550	2,074	., , ,
January	1,427	1,428	1,460	7,039	7,554	2,913	2,762
February	1,351	1,444	1,429	7,896	7,526	2,808	2,862
March	1,500	1,440	1,414	7,385	7,536	2,812	2,799
April							0.40
May	1,220	1,194	1,354	7,297	7,342	2,867	2,830
June	1,467	1,406	1,328	7,788	7,564	2,870 2,823	2,850
	1,409	1,217	1,500	0,049	1,141	2,023	2,00
July	1,225	1,268	1,322	8,367	7,706	2,941	2,89
August	1,559	1,634	1,361	8,996	7,818	2,873	2,92
September	1,191	1,217	1,330	7,140	7,836	2,936	2,99
October	1,500	1,425	1,365	7,971	8,079	3,008	2,99
November		1,220	1,384	7,896	7,830	2,866	2,92
December		1,427	1,328	8,103	7,352	2,916	2,92
1976					1		
January	1,363	1,384	1 205	6,874	7 /33	2 07.0	2,91
February		1,293	1,305	6,126	7,411	3,018	
March	1,195	1,082	1,361	7,497	7,380 7,286	2,820 2,887	2,79
	-,-/2		1,,01	1,471	1,200	2,007	2,0)
April		1,884	1,330	7,784	7,068	2,845	2,93
May	2,0/~	1,095	1,321	7,334	7,376	2,851	2,87
June	1,418	1,244	1,281	6,795	7,589	3,007	3,01
July	1,347	1,326	rl,338	8,717	7,656	2,963	2,95
August		1,055	1,241	7,409	7,649		2.97
September		r1,423	pl,328	7,896	(NA)	2,962 2,978	3,01
October		1,303				p3,021	p3,04
October		pl,617		7,743 (NA)		(NA)	(NA
December		br,or,		(NA)		(MA)	(10)

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 11.)



		s' shipments, defense s, Census	689. Manufacturers' shipments to the		cturers' unfilled orders ense products, Census		turers' inventories to e products, Census
Year and month	Seasonally adjusted*	Moving average of seasonally adjusted data—5-month*	U.S. Government, aerospace industries, Census, seasonally adjusted*	Seasonally adjusted*	Moving average of seasonally adjusted data-5-month*	Seasonally adjusted*	Moving average of seasonally adjusted data—5-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Ratio)	(Ratio)	(Ratio)	(Ratio)
1974			anc.				
January February March	1,552 1,610 1,612	1,564 1,573 1,591	3,696	13.8 13.6 13.4	13.6 13.6 13.7	3.7 3.6 3.7	3.7 3.7 3.7
April	1,586 1,594 1,596	1,600 1,564 1,541	3,780	13.6 13.9 13.9	13.7 14.1 14.6	3.8 3.8 3.9	3.8 3.9 4.0
July August September	1,431 1,497 1,638	1,551 1,565 1,553	3,834	15.5 16.0 14.6	14.8 14.9 15.3	4.4 4.3 3.9	4.1 4.1 4.1
October	1,663 1,536 1,585	1,584 1,613 1,636	3,888	14.3 16.0 15.5	15.3 15.1 15.0	3.9 4.2 4.1	4.1 4.0 4.0
January	1,644 1,753 1,714	1,646 1,688 1,704	4,105	15.0 14.3 14.6	15.1 14.7 14.6	4.0 3.8 4.0	4.0 4.0 4.0
April	1,668	1,709 1,671 1,675	4,104	14.3 14.9 15.1	14.6 15.0 15.1	4.0 4.3 4.4	4.1 4.3 4.4
July	1,732	1,660 1,699 1,713	4,847	16.2 14.8 15.6	15.3 15.1 15.0	4.8 4.4 4.6	4.5 4.5 4.5
October	1,736	1,732 1,756 1,803	4,283	13.7 14.7 15.3	14.8 14.6 14.1	4.1 4.5 4.7	4.5
January February March	1,899	1,807 1,832 1,884	4,555	13.5 13.1 13.6	14.0 13.9 13.5	4.1 4.1 4.3	4.3 4.3 4.2
April	1,923	1,860 1,823 1,809	p5,042	13.9 13.4 15.4	13.9 14.3 14.4	4.4 4.3 4.9	4.4 4.6 4.7
July	1,815	1,803 r1,812 p1,826	(NA)	15.1 14.3 14.0	14.4 14.4 pl4.3	5.0 4.7 4.6	4.7 4.7 (NA)
October	pl,800			r13.3 p14.8		4.3 (NA)	

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 12.)

Defense-Related Balance of Payments Components

		der U.S. military agency ts (exports), BEA ¹	547. Direct defense expenditures (imports),		t cash receipts associated les contracts, BEA ²	
Year and month	Not seasonally adjusted	Seasonally adjusted*	BEA, not seasonally adjusted *	Not seasonally adjusted	Seasonally adjusted*	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1974						
anuary	***	***		***	***	
February	644	638	1,153	497	538	
March	•••	***	***	***	•••	
April	***		- :::	***	:::	
May	738	683	1,298	642	674	
lune		***		•••	***	
July			- ***			
August	720	781	1,265	995	989	
September	•••	***	•••	•••	***	
October	***	***		***		
November	850	850	1,319	808	741	
1975		•••	***	***	***	
January					***	
February	931	915	1,317	1,050	1,094	
Match	***	***	***	***	***	
April						
May		807	1,185	1,013	1,047	
June	• • • •	•••		***		
July		***				
August		978	1,093	1,148	1,135	
September	***	***	***	***	***	
October						
November		1,197	1,185	1,380	1,315	
December	•••	•••				
1976						
January				***	***	
February		1,145	1,150	2,250	2,294	
March	•••	•••		***	***	
April				***	1 400	
May		rl,073	rl,219	rl,856	rl,893	
June	***	***	***	***	***	
July		***	***		***	
August	pl.470	pl,587	p1,221	p2,042	p2,026	
Sehrenmen						
October						
November						
December						

*Indicates series shown in charts. (See page 13.) NA=not available; p=preliminary; r=revised; e=estimated.

¹Includes deliveries for which Israel has been released from its contractual liability to pay. ²Excludes funds made available to release Israel from its contractual liability to pay for defense articles and services purchased through military sales contracts. Quarterly expenditures for such purpose under Public Law 93-199 and subsequent legislation amounted to (in millions): 1974, IIQ, \$623; IIIQ, \$223; IVQ, \$91; 1975, IQ, \$187; IIQ, \$124; IIIQ, \$83; IVQ, \$242; 1976, IQ, \$107; IIQ, \$9; IIIQ, \$743.

Appendix A. SEASONAL ADJUSTMENT FACTORS

Series title						19	76					
MONTHLY SERIES	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Defense Department gross obligations incurred:												
617. Total ¹	106.4	90.5	93.2	95.0	77.8	133.3	118.2	108.7	94.4	103.1	92.9	90.
619. Operations ¹	104.9	91.2	93.3	102.8	89.1	117.6	118.5	100.9	96.6	106.2	90.5	91.
621. Procurement	128.5	103.3	89.1	68.6	64.9	166.7	79.3	93.7	98.0	111.4	100.9	95.
23. Gross obligations incurred outside the Federal Government												
for national defense ¹	108.1	86.7	95.2	94.2	82.5	119.9	115.7	107.5	97.2	105.2	95.6	97.
25. Defense Department military prime contract awards for work												
performed in the United States	96.5	84.5	84.9	72.5	71.9	179.3	116.0	108.3	100.1	105.5	88.5	91.
Defense Department gross unpaid obligations outstanding: ²												
643. Total	103.2	101.0	97.9	95.5	91.9	95.6	99.0	103.0	103.1	104.7	103.3	101.
644. Operations	105.4	99.0	92.8	93.1	87.0	89.5	101.1	106.3	105.6	112.7	105.7	101.
645. Procurement	102.4	103.0	102.0	99.8	96.9	100.1	97.7	98.3	98.7	99.3	100.7	100.
48. Manufacturers' new orders, defense products ³	98.7	92.1	92.2	88.8	67.6	94.9	162.3	86.9	114.6	108.2	86.1	107
553. Average weekly overtime hours, production workers, defense												
products industries ⁴	1	1	1	3	3	.0	3	.0	.3	.1	.3	
654. Accession rate, defense products industries ⁴	1	3	2	2	.0	.6	.3	.4	.4	.2	3	-
655. Layoff rate, defense products industries4	.1	.1	.1	.1	.0	1	1	1	2	.0	.1	
657. Output of defense and space equipment3	100.3	100.3	100.4	99.1	99.6	100.6	98.3	98.5	99.3	99.9	101.0	102
659. Manufacturers' inventories, defense products ³	99.7	99.7	100.1	100.6	100.1	99.7	100.1	99.2	99.8	100.6	100.6	99
661. Manufacturers' unfilled orders, defense products ³	101.0	100.5	100.0	99.3	97.2	96.5	101.1	100.1	101.0	101.5	100.4	100
Employment in defense products industries:												
670. Total	100.3	99.9	99.5	99.4	99.2	99.6	99.3	99.3	100.3	100.6	101.1	101
671. Production workers	100.6	100.0	99.5	99.3	98.8	99.3	99.0	98.5	100.3	100.8	101.7	102
673. Index of aggregate weekly hours, defense products	100.0	100.0	17.00	17.0	,0.0	17.0	1,,,,	,0.,	200.)	120000	102.7	1
industries	100.0	100.0	99.6	98.9	99.4	99.7	98.4	98.9	100.6	100.6	101.7	102
675. Index of aggregate weekly payrolls, production workers,			,,,,,					1-11				-
defense products industries	100.2	100.3	99.7	98.0	99.0	98.9	96.3	97.2	100.8	101.2	103.0	105
Defense Department net outlays:												
680. Total, military functions and military assistance ¹	100.2	99.3	104.2	102.2	97.8	120.2	85.8	95.6	96.4	98.4	100.1	104
681. Operations ¹	99.9	100.5	101.2	102.0	97.1		96.0	99.2	97.8	98.7	99.4	
682. Procurement ¹	98.5	94.9		95.1	99.7	114.0	101.6	100.8		102.6		98
683. Budget outlays for the national defense function ¹	100.6			102.7	97.3		85.6	98.1	97.0			
685. Defense Department personnel compensation ¹	103.5				99.2		100.2	99.7				
688. Manufacturers' shipments, defense products ³	88.3	96.6	99.4	99.4	99.4		98.4	99.2				
	00.5		77.4	77.4		10).4	70.4	1	10).)	70.0		107
QUARTERLY SERIES		IQ			IIQ			IIIQ		IVQ		
200. Gross national product ³		95.9			100.5			98.5			104.7	
264. Fed. Govt. purchases of goods and services, national defense ³		101.5			101.7			95.0			102.0	
546. Transfers under U.S. military agency sales contracts—exports ⁵		16			58			-72	5		-2	2
Defense Department military prime contract awards:												
626. Aircraft		98.6			102.7			105.8	3		92.6	5
627. Missile and space systems		83.9			73.5			138.3	3		104.5	5
629. Weapons and ammunition		95.3			150.6			41.	5		112.3	3
630. Electronic and communications equipment		93.6			124.9			86.6	5		95.2	2
631. Combat vehicles		56.8			146.2			113.0)		83.0	
632. Other hard goods		90.8			149.2			74.0	9		84.9	9
633. Soft goods		82.8			74.9			150.			91.9	
634. Construction		76.6			196.8		-	63.			63.0	
635. Services		65.7			104.9			124.			104.6	
636. Under \$10,000		99.3			123.2			83.6			93.8	
637. Educational and nonprofit institutions		80.2			75.3			142.			103.9	
640. Outside U.S		76.4			89.6			162.			71.	
Aerospace industries:												
650. Manufacturers' new orders from the U.S. Government		88.5			87.0			123.	/.		100.	2
664. Manufacturers' unfilled orders from the U.S. Government.		100.2			96.7			101.			101.8	
689. Manufacturers' shipments to the U.S. Government		94.8			100.9			100.			103.	
696. U.S. Govt. cash receipts associated with military sales contracts ⁵		-44			-34			100.			103.6	
		-44		1	-24		1	1	2		0	1

NOTE: The seasonal adjustment factors presented in this table were computed using the techniques described in the Bureau of the Census Technical Paper No. 15, The X-11 Variant of the Census Method II Seasonal Adjustment Program.

Monthly data for Defense Department military prime contract awards by commodity category (series 626 to 640) have not been adjusted for seasonal variation. The series on direct defense expenditures—imports (series 547), Defense Department progress payments outstanding (series 666), and Defense Department personnel (series 677 and 678) contain no measurable seasonal variation.

1 Factors are products of seasonal and trading-day factors.

² Prior to 1972, data for gross unpaid obligations outstanding are not available for a number

of months but these gaps were filled with averages of preceding and following months for purposes of estimating seasonal variation.

³ These series have been adjusted by the source agencies. The factors shown here are implicit seasonal factors for the calendar year 1975 and are derived by dividing the seasonally unadjusted data by the seasonally adjusted data.

⁴These series have been seasonally adjusted using the additive version of the seasonal adjustment program. Seasonally adjusted data are derived by subtracting the adjustment factor from the unadjusted data. Seasonally adjusted data for other series are derived by dividing the seasonal factors into the unadjusted data.

³ This series is the total of component series which have been adjusted separately by the source agency. The factors shown here are implicit seasonal factors for the calendar year 1975 and are derived by subtracting the seasonally adjusted data from the seasonally unadjusted data.

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY

Part 1. Monthly Series

	Series title	Period covered	ō	CI	T	c	ī/c̄	MCD	Average of run (
		covereu							CI	MCD
Defer	nse Department gross obligations incurred:									
	617. Total	Jan. '57-Jan. '76	18.28	6.98	6.89	0.72	9.53	6	1.53	2.3
	619. Operations	July '59-Jan. '76	8.98	2.77	2.66	. 65	4.09	4	1.69	3.0
	621. Procurement	Jan. '57-Jan. '76	44.28	22.39	22.27	1.54	14.44	6	1.46	2.0
23.	Gross obligations incurred outside the Federal Government for national									
	defense	July '63-Sept. '75	14.17	7.92	7.82	.73	10.72	6	1.52	2.
25.	Defense Department military prime contract awards for work performed									
	in the United States, total	Jan. '57-Jan. '76	32.78	15.55	15.41	1.35	11.42	6	1.42	2.
Defer	nse Department gross unpaid obligations outstanding:									
	643. Total	Jan. '57-Jan. '76	2.13	1.32	. 95	.88	1.08	2	2.65	3.
	644. Operations	Jan. '67-Jan. '76	5.59	2.68	2.37	1.13	2.10	3	1.96	5.
	645. Procurement	Jan. '67-Jan. '76	2.19	1.52	1.07	. 94	1.14	2	2.08	4.
Vfanu	facturers' new orders:									
	647. Defense products industries	Jan. '57-Mar. '72	(NA)	15.11	14.89	. 97	15.32	6	1.58	2.
	648. Defense products	Feb. '68-Jan. '76	(NA)	21.50	21.43	1.47	14.59	6	1.56	1.
553.	Average weekly overtime hours, production workers, defense products									
	industries (hours).	Jan. '58-Jan. '76	.22	.11	.11	.03	3.14	4	2.50	3.
	Accession rate, defense products industries (per 100 employees)	Jan. '58-Jan. '76	.38	.16	.15	.05	3.12	4	2.16	4.
	Layoff rate, defense products industries (per 100 employees)	Jan. '58-Jan. '76	.17	.14	.13	.04	3.14	4	1.93	4.
	Output of defense and space equipment	Jan. '57-Jan. '76	(NA)	.96	.50	.75	.67	1	3.40	3.
Manı	facturers' inventories:									
	658. Defense products industries	Jan. '57-Mar. '72	(NA)	1.04	.52	. 85	.62	1	2.80	2.
	659. Defense products	Jan. '68-Jan. '76	(NA)	1.75	1.13	1.29	.88	1	3.10	3.
Manu	rfacturers' unfilled orders:									
	660. Defense products industries	Jan. '57-Mar. '72	(NA)	1.23	.90	. 83	1.09	2	2.76	3.
_	661. Defense products	Jan. '68-Jan. '76	(NA)	1.51	1.18	. 93	1.27	2	2.04	4.
Emp	loyment in defense products industries:									
	670. Total	Jan. '58-Jan. '76	.76	.70	.29	.59	.50	1	4.91	4.
070	671. Production workers	Jan. '58-Jan. '76	1.08	. 93	.51	.70	.73	1	3.72	3.
	Index of aggregate weekly hours, defense products industries	Jan. '58-Jan. '76	. 95	.76	.39	.60	. 65	1	4.00	4.
0/5.	Index of aggregate weekly payrolls, production workers, defense products	1- 150 1- 130								1
D-4-	industries	Jan. '58-Jan. '76	1.72	1.14	.75	.78	. 96	1	2.92	2.
Dete		Jan. '57-Jan. '76							0.01	
	677. Military, active duty (1)	Jan. '57-Jan. '76	.62	(NA)	. 27	.55	.48	1	3.86	3.
Dofo	nse Department net outlays:	Jan. 37-Jan. 70	.55	(NA)	.34	.42	.81	1	4.30	4.
Dete	680. Total, military functions and military assistance	Jan. '57-Jan. '76	8,89	4.31	4.19	.77	5.42	6	1.70	3.
	681. Operations	July '59-Jan. '76	7.07	3.62		.73	4.69	5	1.58	2.
	682. Procurement.	Jan. '57-Jan. '76	15.10	11.77		1.59	7.32	6	1.57	2.
202	Budget outlays for the national defense function.		8.87	4.27	4.18	.73	5.73	6	1.58	2.
	Defense Department personnel compensation	Jan. '67-Jan. '76						4	2.57	
	ufacturers' shipments:	Jan. 07-Jan. 70	2.70	1.33	1.13	.49	2.32	4	2.31	4.
mail	687. Defense products industries	Jan. '57-Mar. '72	(NA)	2.67	2.49	. 87	2.85	3	1.64	3.
	688. Defense products	Jan. '68-Jan. '76	(NA)	4.40		.98	4.41	5	1.57	2.
Ratio	p, manufacturers' unfilled orders to shipments:	Jan. 00 Jan. 70	(MA)	4.40	4.34	. 30	4.41	1	1.37	1 4.
11011	690. Defense products industries	Jan. '57-Mar. '72	(NA)	2.95	2.71	. 96	2.82	4	1.90	3.
	691. Defense products.		(NA)	4.93		1.01	4.77	5	1.69	2.
Rati	o. manufacturers' inventories to shipments:	van. 00-van. 70	(MA)	4.93	4.01	1.01	4.77	,	1.09	1 2.
nati	692. Defense products industries	Jan. '57-Mar. '72	(NA)	2.84	2.90	.72	4.01	5	2.46	5.
	693. Defense products		(NA)			1.13	4.01	5	1.96	-

NA = not available.

*Measures for these series are based on actual changes rather than percent changes (see definition below). Windicates measures are based on unadjusted data.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 1

The measures in this appendix provide a historical perspective for interpreting current changes in each series. They are derived using the Census X-11 seasonal adjustment program. Brief definitions of the measures are given below; more complete definitions appear in *Electronic Computers and Business Indicators* by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from *Journal of Business*, October 1957).

" \overline{O} " is the average month-to-month percent change, without regard to sign, in the original unadjusted series. (See final paragraph below for exceptions to these definitions.)

"CI" is the same for the seasonally adjusted series.

 $^{\prime\prime}\overline{C}^{\prime\prime}$ is the same for the short-term trend, which is a smooth, flexible moving average of the seasonally adjusted series.

"I" is the same for the irregular component, which is obtained by dividing the seasonally adjusted series by the short-term trend.

" \overline{I} / \overline{C} " measures the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. It is the ratio of the average monthly percent change (without regard to sign) in the irregular component to the average monthly percent change (without regard to sign) in the short-term trend.

"MCD" (months for cyclical dominance) estimates the number of months required for the short-term trend to dominate the irregular component. Average percent changes are computed for spans of from 1 to 12 months for both the irregular component and the short-term trend. MCD is the shortest span of months for which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All MCD's greater than "5" are shown as "6".

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY—Continued

"Average Duration of Run" (ADR) is another measure of smoothness and is equal to the average number of consecutive monthly changes in the same direction in any series of observations. When there is no change between two observations, a change in the same direction as the preceding change is assumed. The ADR is shown for the seasonally adjusted series (CI) and the MCD curve, which is a moving average (with the number of terms equal to MCD) of the seasonally adjusted series. A comparison of these measures with the expected ADR of a random series indicates whether the changes approximate those of a random series. In a random series, the expected ADR is 1.5 and the actual values fall between 1.36 and 1.75 about 95 percent of the time. For a moving average of a random series, the expected ADR is 2.

Measures for series identified with an asterisk (*) are computed by an additive method. This method is used for series with zero or negative data, series which could approach zero, and series expressed in percent. In this method, the measures are defined the same as above except for two differences: (1) the measures are based on actual month-to-month changes (rather than percent changes) and (2) the irregular component is obtained by subtracting the short-term trend from the seasonally adjusted series. The average changes shown above for the components of such a series are in the same unit of measure as the series itself. The unit is indicated in the series

Part 2. Quarterly Series

	Series title	Period	ō	Ci	ī	ī	ī/c	aco	Average of run	duration (ADR)
		covered							CI	QCD
200.	Gross national product	IQ '57-IVQ '75	(NA)	1.84	0.35	1.76	0,20	1	8,33	8.33
264.	Federal Government purchases of goods and services, national defense	IQ '57-IVQ '75	(NA)	1.95	.79	1.70	.46	1	3.26	3.26
546.	Transfers under U.S. military agency sales contracts-exports (mil. dol.)	IQ '60-IVQ '75	79.21	65.13	48.28	34.19	1.41	2	1.70	2.30
*547.	Direct defense expenditures-imports (mil. dol.) (1)	IQ '60-IVQ '75	42.32	(NA)	36.13	24.65	1.47	2	1.66	2.8
613.	National defense purchases as a percent of GNP (percent)	IQ '57-IVQ '75	(NA)	.16	. 07	.15	.46	1	5.36	5.3
650.	Manufacturers' new orders from the U.S. Government, aerospace industries	IQ '61-IVQ '75	24.44	17.96	14.82	5.85	2.53	3	1.44	1.7
664.	Manufacturers' unfilled orders from the U.S. Government, aerospace industries	IQ '61-IVQ '75	4.55	3.91	2.44	2.68	. 91	1	2.27	2.2
666.	Defense Department progress payments outstanding (1)	10 '57-IVQ '75	4.80	(NA)	2.06	4.35	.47	1	2.78	2.7
689.	Manufacturers' shipments to the U.S. Government, aerospace industries	10 '61-IVQ '75	7.04	4.27	3.43	2.11	1.62	2	1.84	2.7
*696.	U.S. Government cash receipts associated with military sales contracts (million dollars).	IQ '60-IVQ '75	107.60	83.62	61.48	45.74	1.34	2	1.57	2.8

NA = not available.

*Measures for these series are based on actual changes rather than percent changes (see definition below). We indicates measures are based on unadjusted data.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 2

These measures are defined the same as those in part 1 except that they are based on quarter-to-quarter percent changes. For example, $\overline{C1}$ is the average quarter-to-quarter percent change (without regard to sign) in the seasonally adjusted series.

In deriving "QCD" (quarters for cyclical dominance), average percent changes are computed for spans of from one to four quarters for the irregular component and the short-term trend. QCD is the shortest span of quarters for

which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All QCD's greater than "3" are shown as "4". The "Average Duration of Run" (ADR) measures are also expressed in quarters.

As in part 1, measures for series identified with an asterisk (*) are computed by an additive method. This method is the same as that used for the monthly series except for the use of quarterly data rather than monthly.



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Series title	Series	Currer (page n		300	N ZEER	RD		There	Series	Curre (page)	nt issue numbers)	Historical data	Series description
	Hullings	Charts	Ta	ANN	ARBOR	MI	48106	組織	numbe	Charts	Tables	(issue date)	(issue
Accession rate, defense products industries	654	8	41	6/76	1 4/73	Hours defense of	inducte industries					-	
Manufacturers' new orders from U.S. Covergment	650	Continu	1	1		Trours, defense p	inducts industries .		673	10	23	7/76	4/73
Manufacturers' shipments to U.S. Government	689	See New See Shipi	nents.			Importante man							
Manufacturers' untilled orders from U.S. Government	664	See Unfil				Inventories, man Defense pro	docte		659	9	20	0.175	
			1	1		Defense pro	ducts industries		658	9	22	8/75	2/73
Balance of payments (defense-related)						Ratio to shi	pments, defense pro	ducts	693	1.2	26	8/75	2/73
Cash receipts associated with military sales contracts	696	13	27	8/76	10/73	I I I I I I I I I I I I I I I I I I I	pinents, detense pro	ducts industries	692	12		11/72	2/73
Direct defense expenditures Transfers under military agency sales contracts	547	13	27	8/76	10/73	1							
Budget outlays for national defense function	546 683	See Outla	27	8/76	10/73	Layoff rate, dete	nse products industr	29	655	8	21	6/76	4/73
	003	See Outle	ly.s.			Military personne	Datanca Danartm	nt					
P-t						Military prime co	intract awards-See (ontract awards	677	10	24	9/76	8/68
Cash receipts associated with military sales contracts Civilian personnel, Defense Department	696	See Balan	ce of pay	ments.					1				
Compensation	678	10	24	9/76	8/68	Net outlays, Defe	inse Department - Se	Outlays.	1				
Payrolls, aggregate weekly, defense products						New orders, man Defense pro	ducate		0.00				
Personnel compensation, Defense Department	675 685	10	23	7/76	4/73	Defense pro	ducts industries	historiae	648 647	7 7	20	8/75 11/72	2/73
Contract awards, military prime	085	11	25	7/76	8/68	From Gover	nment, aerospace ini	fustries	650	8	20	5/75	2/73 2/73
Aircraft Civilian Health and Medical Program	626		16	10/76	8/68								-,
Compat venicles	638 631	***	19	10/76		Obligations incur	red, gross						
	634	***	17 18	10/76	8/68 8/68	Datanea Dae	artmost against		619		15	6/76	8/68
Contracts under \$10,000	636		19	10/76	8/68			M	621	6	15	6/76	8/68
Contracts under \$10,000 Educational and nonprofit institutions Electronic and communications equipment Missile and space systems	637 630	***	19 17	10/76	8/68				623	6	15 16	6/76	8/68 10/73
Missile and space systems Other hard norde	627		16	10/76	8/68 8/68				1				10/13
Other hard goods Services Ships Soft goods	632		18	10/76	8/68	Defense Dep	artment, operations artment, procureme	t	644 645	***	20	6/76	8/68
Ships	635 628		18	10/76	8/68				643	7	20	6/76	8/68 8/68
Soft goods	633		18	10/76	8/68 8/68	Not outless	se nehartment						0/00
Weapons and ammunition	625 629	7	16	10/76	8/68		ncurred		681	See Outla	iys. ations incu	rend	
Total Weapons and ammunition Work outside the United States	640	***	17 19	10/76	8/68 8/68				644	See Oblig	ations nut	standing.	
			~ ~	10770	0/00	Outlays	orders and Unfilled of	rders.		1	1	1	
Defense and space equipment, output		1		1		Budget outla	ys for national defer	se function	683	11	25	7/76	10/73
Detense Department	657	See Outpu	t of defer	ise and space	equipment.	Detense Dep	artment, operations		681	***	24	7/76	8/68
Gross obligations incurred—See Obligations incurred.				1		Defense Des	and and a second state of	* Titleringerson	682 680	11	25	7/76	8/68 8/68
Gross unpaid obligations outstanding—See Obligations outstanding.				1			artment, total and space equipmer efense products indu		657	9	22	8/75	10/73
Military prime contract awards - See Contract awards						Overtime mours, o	erense products indu	stries	653	8	21	6/76	4/73
Net outlays—See Outlays. Personnel compensation		- 1		1		0							
Personnel - See Civilian personnel and Military	685	See Compe	ensation.			Personnel compani	weekly, defense pro sation, Defense Depa	ducts industries	675	See Comp	enestion	1	
						Personnel - See Civ	dian personnel and 1	Ailitary personnel.	685) see comp	distriction,		
Progress payments outstanding	666 547	See Progres	ss paymer	its.	1						1		
	347	See Balanc	e of payn	ients.		Obligations in	ocurred		682 621	See Outla	ys.		
									645	See Obliga	ations incu		
Accession rate, defense products industries						Lindians hakment?	outstanding, Defens and services for nat	e Henartment 1	666 264	9	22	5/75	8/68
employment, production workers, defense products	654	See Access	on rate.					undi deletise	204	See Gross	national p	roduct.	
midustries	671	10	23	7/76	4/73	Shipments, manufa	actuence"						
Employment, total, defense products industries : Hours, defense products industries	670 673	10	22	6/76	4/73	Defense produ	ets		688	12	26	8/75	2 /72
		See Hours. See Layoff	rate		-				687	12		11/72	2/73
Overtime hours, defense products industries Personnel—See Civilian personnel and Military		See Overtin				Ratio, invento	ories to shipments, di ories to shipments, di	efense products	693				
personnel.		1	1	1		Hittinstries			692	See Inven	ories		
xpenditures-See Outlays.						Ratio, unfiller	d orders to shipment d orders to shipment	, defense products	691)			
									690	See Unfille	ed orders.		
ederal purchases of goods and services for national		1				To Governme	nt, aerospace industr	ies	689	12	26	5/75	2/73
defense	264	See Grass n	ational ne	nduct				-					
		1	1	1		Transfers under mi	litary agency sales co	ntracts	546	See Balanc	e of paym	ents.	
Federal purchases of goods and services for national						Unfilled orders, ma	oufacturers'	1	1	1	1	1	
delense	264	5	14	8/76	10/73	Defense produ	oto	erritariya	661	9	22	8/75	2/73
Uross national product	200	5	14	8/76	10/73	From Grupens	nets industries ment, aerospace indu	etclas	660	9	22	7/71	2/73 2/73
National defense purchases as percent of GNP ross obligations incurred.	613	5	14	8/76	10/73	natio to shipn	nents, defense produ	21:	664	12	22	5/75 8/75	2/73 2/73
unpaid obligations outstanding—See Obligations	1	1					nents, defense produ outstanding-See Ob		690	12		11/72	2/73
outstanding.		1	1			outstanding.	outstanding-See Ob	ligations	-				

